

Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Sheet 1 of 1

Form PTO-1449		
ATTY DOCKET NO. 61-03	SERIAL NO. 09/438,365	FILING DATE November 12, 1999
APPLICANT Chu		GROUP 1635

U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
B3D	6,399,663	06/04/02	Haces et al.	514	642	
	6,020,202	02/01/00	Jessee	435	458	
	5,834,439	11/10/98	Haces et al.	514	42	
	5,736,392	04/07/98	Hawley-Nelson	435	320.1	
	5,674,908	10/07/97	Haces et al.	514	642	
	5,635,487	06/03/97	Wolff et al.	514	44	
	3,369,905	02/20/68	Jones et al.	96	107	
	3,324,182	06/06/67	De Brunner et al.	260	583	
	2,654,785	10/06/53	Miescher, K. et al.	260	567.6	
	2003-0069173	04/10/03	Hawley-Nelson	514	8	
	2002-0086849	07/04/02	Gebeyehu et al.	514	44	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No
B3D	WO 02/34879	05/02/02	PCT	C12N 15/88		
	WO 00/12454	03/09/00	PCT	C07C 19/00		
	WO 00/58488	10/05/00	PCT	C12N 15/87		
	WO 98/19709	05/14/98	PCT	A61K 47/48		
	WO 97/42819	11/20/97	PCT	A01N 37/18		
	WO 96/40961	12/19/96	PCT	C12N 15/88		
	WO 94/27435	12/08/94	PCT	A01N 25/26		
	WO 93/14778	08/05/93	PCT	A61K 37/00		
	WO 93/05162	03/18/93	PCT	C12N 15/63		

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

B3D		Felgner et al. (1993) Keystone Symposium on Genetic Targeted Research and Therapeutics: Antisense and Gene Therapy, Keystone, CO; J. Cell. Biochem. Suppl. 0(17 Part E), p. 206, S306
		Gao, X. and Huang, L. (1993), "Cationic Liposomes and Polymers for Gene Transfer," J. Liposome Res. 3(1):17-30

EXAMINER	DATE CONSIDERED 12/23/05
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

GROUP 1642

FORM PTO-1449		ATTY. DOCKET NO. 0942,4650001/RVE/THW		APPLICATION NO. 09/438,365	
INFORMATION DISCLOSURE STATEMENT		APPLICANT CHU et al.		FILING DATE November 12, 1999	
				GROUP 1635	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	FILING DATE
	AA					
	AB					
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	AJ					
	AK					

FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	TRANSLATION
BDD I	AL3	WO 95/17373	06/29/1995	WIPO		Yes No
	AM3	WO 98/19709	05/14/1998	WIPO		Yes No
	AN					Yes No
	AO					Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR		
	AS		
	AT		

EXAMINER	DATE CONSIDERED
✓	12/23/05

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SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

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Page 1 of 1

FORM PTO-1449
SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4650001/RWE/TNW

APPLICATION NO.
09/438,365

APPLICANT
CHU et al.

FILING DATE
November 12, 1999

GROUP
1643

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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AB						
AC						
AD						
AE						
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FOREIGN PATENT DOCUMENTS

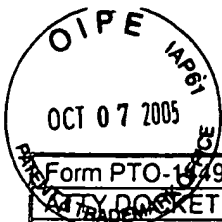
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
						Yes No
						Yes No
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						Yes No
						Yes No
B76	AP2	WO 99/02190	01/21/1999	WIPO		Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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Form PTO-1549		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
BJD	6,093,564	07/25/2000	Budowsky et al.	C12N	7/06	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No
BJD	WO 98/29541	09/07/1998	PCT	C12N	15/00	

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

h 12/23/05

Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 1 of 2

FORM PTO-1449

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.4650001		APPLICATION NO. 09/438,365	
APPLICANT Chu et al.			
FILING DATE November 12, 1999		GROUP To be assigned	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
BJD	AC4	5,744,335	04/28/1998	Wolff et al.	435	172.3	09/19/1995
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
BJD	AN1	FR 1,567,214	05/16/1969	France			Yes No
I	AO1	WO 97/42819	11/20/1997	WIPO			Yes No
I	AP1	EP 0 846 680 A1	06/10/1998	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR		
AS		
BJD	AT	2

Henkel und Cie. G.m.b.H., abstract no. 68522p, "Low-foaming detergents containing bisquaternary compounds," Chem. Abstr. 72(14):116 (April 1970).

EXAMINER *h* DATE CONSIDERED 12/23/05

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Page 2 of 2

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001		APPLICATION NO. 09/438,365	
FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT					
		APPLICANT Chu et al.			
		FILING DATE November 12, 1999		GROUP To be assigned	

U.S. PATENT DOCUMENTS						
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	AA					
	AB					
	AC					
	AD					
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	AK					

FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	TRANSLATION
B30	AL2	WD 98/02190	01/22/1998	WIPO		Yes No
I	AN2	WD 98/40499	09/17/1998	WIPO		Yes No
	AN2	WD 98/40502	09/17/1998	WIPO		Yes No
	A02	WD 99/29712	06/17/1999	WIPO		Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B30	AR	6	McCluskie, M. et al., abstract no. 91045k, "Direct gene transfer to the respiratory tract of mice with pure plasmid and lipid-formulated DNA," Chem. Abst. 130:151 (February 1999).
I	AS	6	International Search Report for International Application No. PCT/US99/26825, mailed February 22, 2000.
	AT		

EXAMINER	DATE CONSIDERED 12/23/05
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APPLICANT Chu et al.

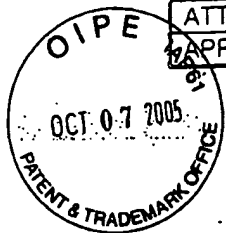
GROUP 1642

Previously Submitted in:

Page 1 of 5

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.		FILING DATE November 12, 1999	
				GROUP To be assigned			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BDD I	AA1	2,695,314	11/23/1954	Kosmin, M.	260	584	08/25/1951
	AB1	2,901,461	08/25/1959	Auerbach et al.	260	47	05/05/1955
	AC1	3,152,188	10/06/1964	Kirkpatrick, W.H.	260	584	11/15/1960
	AD1	4,897,355	01/30/1990	Epstein et al.	435	240.2	10/29/1987
	AE1	5,171,678	12/15/1992	Behr et al.	435	172.3	04/17/1990
	AF1	5,208,036	05/04/1993	Epstein et al.	424	450	11/16/1990
	AG1	5,279,833	01/18/1994	Rose, J.K.	424	450	04/04/1990
	AH1	5,283,185	02/01/1994	Epand et al.	435	172.3	08/28/1991
	AI1	5,334,761	08/02/1994	Gebeyehu et al.	564	197	08/28/1992
	AJ1	5,455,335	10/03/1995	Kahne et al.	536	5	04/08/1994
	AK1	5,459,127	10/17/1995	Felgner et al.	514	7	09/16/1993
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BDD I	AL1	EP 0 394 111 B1	06/04/1997	Europe			Yes No
	AM1	WO 94/27435 A1	12/08/1994	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
	OTHER (Including Author, Title, Date, Pertinent Pages, etc.)						
BDD I	AR	1	Bingham, A.D. et al., "Diffusion of Univalent Ions across the Lamellae of Swollen Phospholipids," J. Mol. Biol. 13:238-252 (1965).				
	AS	1	Behr, J.-P. et al., "Efficient gene transfer into mammalian primary endocrine cells with lipopolyamine-coated DNA," Proc. Natl. Acad. Sci. USA 86:6982-6986 (September 1989).				
	AT	1	Felgner, P.L. et al., "Lipofection: A highly efficient, lipid-mediated DNA-transfection procedure," Proc. Natl. Acad. Sci. USA 84:7413-7417 (November 1987).				
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Previously Submitted in:

Page 2 of 5

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001		APPLICATION NO. 09/438,365	
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				FILING DATE November 12, 1999		GROUP To be assigned	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BJD	AA2	5,545,412	08/13/1996	Eppstein et al.	424	450	04/03/1995
	AB2	5,550,289	08/27/1996	Eppstein et al.	564	293	04/03/1995
	AC2	5,589,466	12/31/1996	Felgner et al.	514	44	01/26/1995
	AD2	5,667,774	09/16/1997	Figuly, G.D.	424	78.08	11/07/1996
	AE2	5,674,908	10/07/1997	Haces et al.	514	642	12/20/1993
	AF2	5,703,055	12/30/1997	Felgner et al.	514	44	01/26/1994
	AG2	5,705,385	01/06/1998	Bally et al.	435	320.1	06/07/1995
	AH2	5,719,131	02/17/1998	Harris et al.	514	44	10/20/1995
	AI2	5,736,392	04/07/1998	Hawley-Nelson et al.	435	320.1	06/04/1996
	AJ2	5,753,613	05/19/1998	Ansell et al.	514	2	05/16/1995
AK2	5,783,565	07/21/1998	Lee et al.	514	44	02/01/1996	
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BJD	AR	2	Fukunaga, M. et al., "Liposome Entrapment Enhances the Hypocalcemic Action of Parenterally Administered Calcitonin," <i>Endocrinol.</i> 115:757-761 (1984).				
	AS	2	Gao, Y. and Huang, L., "A Novel Cationic Liposome Reagent for Efficient Transfection of Mammalian Cells," <i>Biochem. Biophys. Res. Comm.</i> 179:280-285 (August 1991).				
	AT	2	Hart, S.L. et al., "Lipid-Mediated Enhancement of Transfection by a Nonviral Integrin-Targeting Vector," <i>Hum. Gene Ther.</i> 9:575-585 (March 1998).				
EXAMINER				DATE CONSIDERED 12/23/05			
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Previously Submitted in:

Page 3 of 5

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001		APPLICATION NO. 09/438,365	
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BDD	AA3	5,783,566	07/21/1998	Mislick, K.A.	514	44	05/10/1996
	AB3	5,785,992	07/28/1998	Ansell et al.	424	450	09/29/1995
	AC3	5,795,587	08/18/1998	Gao et al.	424	450	01/23/1995
	AD3	5,830,430	11/03/1998	Unger et al.	424	1-21	02/21/1995
	AE3	5,830,878	11/03/1998	Gorman et al.	514	44	06/07/1995
	AF3	5,834,439	11/10/1998	Haces et al.	514	42	01/13/1997
	AG3	5,837,283	11/17/1998	McDonald et al.	424	450	03/12/1997
	AH3	5,840,710	11/24/1998	Lee et al.	514	44	10/20/1995
	AI3	5,908,635	06/01/1999	Thierry, A.	424	450	08/05/1994
	AJ3	5,935,936	08/10/1999	Fasbender et al.	514	44	06/03/1996
	AK3	5,948,925	09/07/1999	Keynes et al.	552	540	05/06/1997
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BDD	AR	2	Kim, S. et al., "Preparation of Multivesicular Liposomes," <i>Biochim. Biophys. Acta</i> 728:339-348 (1983).				
	AS	2	Mayer, L.O. et al., "Vesicles of variable sizes produced by a rapid extrusion procedure," <i>Biochim. Biophys. Acta</i> 858:161-168 (1986).				
	AT	2	Meyhew, E. et al., "Characterization of Liposomes Prepared Using a Microemulsifier," <i>Biochim. Biophys. Acta</i> 775:169-174 (1984).				
EXAMINER <i>BV</i>					DATE CONSIDERED 12/23/05		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

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Page 4 of 5

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942,4650001		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP To be assigned	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BJP	AA4	5,948,767	09/07/1999	Scheule et al.	514	44	07/12/1996
I	AB4	5,962,533	10/05/1999	Bergeron, Jr., R.J.	514	674	02/06/1996
	AC						
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BJP	AR	5	Olson, F. et al., "Preparation of Liposomes of Defined Size Distribution by Extrusion Through Polycarbonate Membranes," <i>Biochim. Biophys. Acta</i> 557:9-23 (1979).				
I	AS	5	Rosenthal, A.F. and Geyer, R.P., "A Synthetic Inhibitor of Venom Lecithinase A," <i>J. Biol. Chem.</i> 235:2202-2206 (August 1960).				
I	AT	5	Szoka Jr., F. and Papahadjopoulos, D., "Procedure for preparation of liposomes with large internal aqueous space and high capture by reverse-phase evaporation," <i>Proc. Natl. Acad. Sci. USA</i> 75:4194-4198 (1978).				
EXAMINER					DATE CONSIDERED 12/23/05		
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Page 5 of 5

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U.S. PATENT DOCUMENTS							
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	AA						
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
B5b I	AR	2	Zhou, X. et al., "Lipophilic polylysines mediate efficient DNA transfection in mammalian cells," <i>Biochim. Biophys. Acta</i> 1065:8-14 (1991).				
	AS	2	Life Technologies Inc. catalogue, <i>Spectrum</i> , pp. 1-8 (September 1999).				
	AT						
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Previously Submitted in:

Information Disclosure Statement

Page 1 of 3

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v1.8

Stylesheet Version v1.8.0

Title of Invention	New Transfection Reagents																																																																
<p>Application Number: 09/438365 *09/438365*</p> <p>Confirmation Number: 9217</p> <p>First Named Applicant: Yongliang Chu</p> <p>Attorney Docket Number: 0942.4650001</p> <p>Examiner: Janet L. Epps</p> <p>Search string: (2654785 or 3324182 or 3369905 or 4143003 or 4889953 or 4967008 or 4946787 or 5049386 or 5091576 or 5166320 or 5198423 or 5266106 or 5264618 or 5338532 or 5354844 or 5498522 or 5527524 or 5532142 or 5547932 or 5560929 or 5578475 or 5583198 or 5587441 or 5587446 or 5589392 or 5631329 or 5574142 or 5635487 or 5658776 or 5661025 or 5670347 or 5714166 or 5736387 or 5759805 or 5773527 or 5837533 or 5854224 or 5861397 or 5866613 or 5906922 or 5837092 or 2867665),pn.</p>																																																																	
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Information Disclosure Statement

Page 2 of 3

8	5049386	1991-09-17	Eppstein et al.
9	5091576	1992-02-25	Bergeron
10	5166320	1992-11-24	Wu et al.
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642


Previously Submitted in:

Information Disclosure Statement

Page 3 of 3

41	5837092	1998-11-17	Grieves et al.
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Signature

Examiner Name	Date
	12/23/05

Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in: Information Disclosure Statement Page 1 of 3

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Title of Invention	New Transfection Reagents																																																								
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Information Disclosure Statement

Page 2 of 3

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642


Previously Submitted in:

Information Disclosure Statement

Page 3 of 3

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	12/23/05

Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Information Disclosure Statement

Page 1 of 3

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Information Disclosure Statement

Page 2 of 3

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629.522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Information Disclosure Statement

Page 3 of 3


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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 2 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438.165	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.			
		FILING DATE November 12, 1999		GROUP 1635	

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B36	AR	58	Aslanyan, V.M. et al., "Conformation and Thermal Stability of DNA in Aqueous Solutions of β -Alanine and γ -Aminobutyric Acid," <i>Biophysics</i> 29:615-620, Pergamon Press, Ltd. (1984)
	AS	58	Astatke, M., et al., "How E. coli DNA Polymerase I (Klenow fragment) Distinguishes between Deoxy- and Dideoxynucleotides," <i>J. Mol. Biol.</i> 278:147-165, Academic Press, Ltd. (April 1998)
	AT	58	Barnes, W.M., "The fidelity of Taq polymerase catalyzing PCR is improved by an N-terminal deletion," <i>Gene</i> 112:29-35, Elsevier Science Publishers B.V. (1992)

EXAMINER	DATE CONSIDERED
	12/23/05

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ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1542

Previously Submitted in:

Page 1 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THM		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
B7D	AL13	WO 94/02499 A1	02/03/1994	WIPO	/		Yes No
I	AM13	WO 94/07899 A1	04/14/1994	WIPO			Yes No
	AN13	WO 94/08004 A1	04/14/1994	WIPO			Yes No
	AO13	WO 94/14475 A1	07/07/1994	WIPO			Yes No
	AP13	WO 94/17093 A1	08/04/1994	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B7D	AR	52	Baskaran, M., et al., "Uniform Amplification of a Mixture of Deoxyribonucleic Acids with Varying GC Content," <i>Genome Res.</i> 6:633-638, Cold Spring Harbor Laboratory Press (1996)
I	AS	52	Behr, J-P., "Gene Transfer with Synthetic Cationic Amphiphiles: Prospects for Gene Therapy," <i>Bioconjug. Chem.</i> 5:382-389, American Chemical Society (1994)
I	AT	52	Benoist, C., et al., "In vivo sequence requirements of the SV40 early promoter region," <i>Nature</i> 290:304-310, Macmillan Journals, Ltd. (1981)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 4 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RNE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BJD	AL14	WO 95/16028 A1	06/15/1995	WIPO			Yes
							No
	AM14	WO 95/20682 A1	08/03/1995	WIPO			Yes
							No
	AN14	DE 44 11 588 C1	09/28/1995	Germany			X
				No			
	AO14	EP 0 684 315 B1	11/29/1995	Europe			Yes
							No
	AP14	DE 44 11 594 C1	12/14/1995	Germany			X
				No			

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJD	AR	50	Bonfanti, M., et al., "p21 ^{WAF1} -derived Peptides Linked to an Internalization Peptide Inhibit Human Cancer Cell Growth," <i>Cancer Res.</i> 57:1442-1446, American Association for Cancer Research (April 1997)
	AS	50	Böttger, M., et al., "Condensation of vector DNA by the chromosomal protein HMGI results in efficient transfection," <i>Biochim. Biophys. Acta</i> 950:221-228, Elsevier Science Publishers B.V. (1988)
	AT	50	Boussif, O., et al., "A versatile vector for gene and oligonucleotide transfer into cells in culture and in vivo: Polyethylenimine," <i>Proc. Natl. Acad. Sci. USA</i> 92:7297-7301, National Academy Press (1995)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 5 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BJP	AL15	WO 96/08723 A1	03/21/1996	WIPO	/		Yes X No
I	AM15	WO 96/10640 A1	04/11/1996	WIPO			Yes No
I	AN15	WO 96/29317 A1	09/26/1996	WIPO			Yes No
I	AO15	WO 96/32474 A1	10/17/1996	WIPO			Yes No
I	AP15	WO 96/35706 A1	11/14/1996	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJP	AR	61	Brunette, S., et al., "Lipofection does not require the removal of serum," <i>Nucleic Acids Res.</i> 20:1151, Oxford University Press (1992)
I	AS	61	Buche, A., et al., "Glycine and other amino compounds prevent chromatin precipitation at physiological ionic strength," <i>FEBS Lett.</i> 247:367-370, Elsevier Science Publishers B.V. (1989)
I	AT	61	Buche, A., et al., "Organic Osmotic Effectors and Chromatin Structure," <i>J. Biomol. Struct. & Dynam.</i> 8:601-618, Adenine Press (1990)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 6 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438.365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BJD	AL16	WO 97/05265 A1	02/13/1997	WIPO			Yes No
I	AM16	WO 97/09451 A1	03/13/1997	WIPO			Yes No
	AN16	EP 0 821 059 A2	01/28/1998	Europe			Yes No
	AO16	WO 98/06736 A1	02/19/1998	WIPO			Yes No
I	AP16	WO 98/32866 A1	07/30/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJD	AR	62	Buche, A., et al., "Effect of Organic Effectors on Chromatin Solubility, DNA-Histone H1 Interactions, DNA and Histone H1 Structures," J. Biomol. Struct. & Dynam. 11:95-119, Adenine Press (1993)
I	AS	62	Cánovas, D., et al., "Osmoprotectants in Halomonas elongata: High-Affinity Betaine Transport System and Choline-Betaine Pathway," J. Bacteriol. 178:7221-7226, American Society for Microbiology (1996)
I	AT	62	Cánovas, D., et al., "Isolation and Characterization of Salt-sensitive Mutants of the Moderate Halophile Halomonas elongata and Cloning of the Ectoine Synthesis Genes," J. Biol. Chem. 272:25794-25801, The American Society for Biochemistry and Molecular Biology, Inc. (October 1997)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
				GROUP 1635	

U.S. PATENT DOCUMENTS						
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS
BJD	AL17	WO 98/47912 A1	10/29/1998	WIPO		
I	AM17	WO 99/05302 A1	02/04/1999	WIPO		
I	AN17	WO 99/11809 A1	03/11/1999	WIPO		
I	AO17	WO 99/24559 A2	05/20/1999	WIPO		
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BJD	AR	61	Carninci, P., et al., "Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA," Proc. Natl. Acad. Sci. USA 95:520-524, National Academy Press (January 1998)
	AS	61	Chambers, S.T., et al., "Dimethylchitin Can Substitute for Glycine Betaine as an Osmoprotectant Molecule for Escherichia coli," J. Bacteriol. 169:4845-4847, American Society for Microbiology (1987)
	AT	61	Chen, X., et al., "A self-initiating eukaryotic transient gene expression system based on cotransfection of bacteriophage T7 RNA polymerase and DNA vectors containing a T7 autogene," Nucleic Acids Res. 22:2114-2120, Oxford University Press (1994)

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13	12/23/05

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 8 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438.365	
		APPLICANT Chu et al.			
		FILING DATE November 12, 1999		GROUP 1635	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BJP	AL18	WO 99/46400 A1	09/16/1999	WIPO			Yes
							No
I	AM18	WO 00/58488 A2	10/05/2000	WIPO			Yes
							No
	AN18	WO 00/58488 A3	01/18/2001	WIPO	Yes		
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	AO				Yes		
					No		
	AP				Yes		
					No		

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJP I	AR	54	Cohen, J., "Naked DNA Points Way to Vaccines," Science 259:1691-1692, American Association for the Advancement of Science (1993)
	AS	54	Cotten, M., and Wagner, E., "Non-viral approaches to gene therapy," Curr. Opin. Biotechnol. 4:705-710, Current Biology, Ltd. (1993)
	AT	54	Deamer, D.W., and Uster, P.S., "Liposome Preparation: Methods and Mechanisms," in Liposomes, Marc J. Ostro, ed., Marcel Dekker, Inc., New York, NY, pp.27-51 (1983)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 9 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TDN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

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	AL						Yes No
	AM						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
B J I	AR	55	Dean, N.M., and McKay, R., "Inhibition of protein kinase C- α expression in oice after systemic administration of phosphorothioate antisense oligodeoxynucleotides." Proc. Natl. Acad. Sci. USA 91:11762-11766, National Academy Press (1994)				
	AS	55	Elliot, G., and O'Hare, P., "Intercellular trafficking of VP22-GFP fusion proteins." Gene Ther. 6:149-151, Stockton Press (January 1999)				
	AT	55	Felgner, P.L., and Holm, M., "Cationic Liposome-Mediated Transfection." Focus 11:21-25, Life Technologies, Inc. (1989)				

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 10 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TGN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1615			

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJD	AR	66	Felgner, P.L., and Rhodes, G., "Gene therapeutics," Nature 349:351-352, Macmillan Journals, Ltd. (1991)
	AS	66	Flaman, J-M., et al., "A rapid PCR fidelity assay," Nucleic Acids Res. 22:3259-3260, Oxford University Press (1994)
	AT	66	Flock, S., et al., "Osmotic Effectors and DNA Structure: Effect of Glycine on Precipitation of DNA by Multivalent Cations" J. Biomol. Struct. Dyn. 13:87-102, Adenine Press (1995)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 11 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BFD 	AR	67	Flock, S., et al., "Dielectric Constant and Ionic Strength Effects on DNA Precipitation," Biophys. J. 70:1456-1465, Biophysical Society (1996)
	AS	67	Flock, S., et al., "Na NMR Study of the Effect of Organic Osmolytes on DNA Counterion Atmosphere," Biophys. J. 71:1519-1529, Biophysical Society (1996)
	AT	67	Foecking, M.K., and Hofstetter, H., "Powerful and versatile enhancer-promoter unit for mammalian expression vectors," Gene 45:101-105, Elsevier Science Publishers B.V. (1986)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 12 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/TRN		APPLICATION NO. 09/438.165	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	
U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BSP I	AR	68	Frackman, S., et al., "Betaine and DMSO: Enhancing Agents for PCR," <i>Promega Notes</i> 65:27-29, Promega (February 1998)				
	AS	68	Frick, J.D., et al., "Gene Transfer into Mammalian Cells Using Histone-Condensed Plasmid DNA," <i>Hum. Gene Ther.</i> 7:1395-1404, Mary Ann Liebert, Inc. (1996)				
	AT	68	Giles, R.V., "Antisense oligonucleotide technology: From EST to therapeutics," <i>Curr. Opin. Mol. Ther.</i> 2:238-252, PharmaPress, Ltd. (June 2000)				
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 13 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN	APPLICATION NO. 09/438,365
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.	
		FILING DATE November 12, 1999	GROUP 1635

U.S. PATENT DOCUMENTS							
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJA	AR	52	Goldman, C.K., et al., "In vitro and in vivo gene delivery mediated by a synthetic polycationic amino polymer," <i>Nat. Biotechnol.</i> 15:462-466, Nature America Publishing (May 1997)
	AS	52	Gorman, C., "High Efficiency Gene Transfer into Mammalian Cells," in <i>DNA Cloning</i> , Vol. II, Glover, D.M., ed., IRL Press, Washington, D.C., pp. 143-190 (1985)
	AT	52	Gouesbet, C., et al., "Characterization of the <i>Erwinia chrysanthemi</i> Osmoprotectant Transporter Gene <i>ousA</i> ," <i>J. Bacteriol.</i> 178:447-455, American Society for Microbiology (1996)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 14 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TEN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
				GROUP 1635	

U.S. PATENT DOCUMENTS							
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BTD	AR	70	Gubler, U. and Hoffman, B.J., "A simple and very efficient method for generating cDNA libraries," Gene 25:263-269, Elsevier Science Publishers (1983)
I	AS	70	Haensler, J., and Szoka Jr., P.C., "Polyamidoamine Cascade Polymers Mediate Efficient Transfection of Cells in Culture," Bioconj. Chem. 4:372-379, American Chemical Society (1993)
I	AT	70	Harrison, G.S., et al., "Optimization of Gene Transfer Using Cationic Lipids in Cell Lines and Primary Human CD4+ and CD14+ Hematopoietic Cells," BioTechniques 19:816-823, Eaton Publishing Company (1995)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 15 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,165	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
				GROUP 1635	

U.S. PATENT DOCUMENTS							
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	AN						Yes No
	AO						Yes No
	AP						Yes No

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BTD	AR	21	Hazinski, T.A., et al., "Localization and Induced Expression of Fusion Genes in the Rat Lung." <i>Am J. Respir. Cell Mol. Biol.</i> 4:206-209, American Thoracic Society (1991)
I	AS	21	Hengen, P.N., "Optimizing multiplex and LA-PCR with betaine." <i>Trends Biochem. Sci.</i> 22:225-226, Elsevier Science, Ltd. (June 1997)
I	AT	21	Henke, W., et al., "Betaine improves the PCR amplification of GC-rich DNA sequences." <i>Nucl. Acids Res.</i> 25:3957-3958, Oxford University Press (October 1997)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 16 of 42

FORM PTO-1449				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438.365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BJP 	AR	72	Heywood, S.M., "tcrRNA as a naturally occurring antisense RNA in eukaryotes," Nucleic Acids Res. 14:6771-6772, IRL Press (1986)				
	AS	72	Hogrefe, H., et al., "Novel PCR Enhancing Factor Improves Performance of Pfu DNA Polymerase," Strategies 10:93-96, Stratagene Cloning Systems (August 1997)				
	AT	72	Molt, C.E., et al., "Lipofection of cDNAs in the Embryonic Vertebrate Central Nervous System," Neuron 4:203-214, Cell Press (1990)				
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 17 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/433,165	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BTD	AR	71		Hope, M.J., et al., "Generation of Multilamellar and Unilamellar Phospholipid Vesicles," <i>Chem. Phys. Lipids</i> 40:89-107, Elsevier Scientific Publishers Ireland, Ltd. (1986)			
	AS	71		Houssier, C., et al., "Effects of Compensatory Solutes on DNA and Chromatin Structural Organization in Solution," <i>Comp. Biochem. Physiol.</i> 117A:313-318, Elsevier Science, Inc. (July 1997)			
	AT	71		Houts, G.E., et al., "Reverse Transcriptase from Avian Myeloblastosis Virus," <i>J. Virol.</i> 29:517-522, American Society for Microbiology (1979)			
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 18 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TRM		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
				GROUP 1635	

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	AM					Yes No
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	AO					Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)						
BJD	AR	74		Isakobashvili, R., and Lapidot, A.: "Low temperature cycled PCR protocol for Klenow fragment of DNA polymerase I in the presence of proline," <i>Nucleic Acids Res.</i> 27:1566-1568, Oxford University Press (March 1999)		
I	AS	74		Innis, M.A., "PCR with 7-Deaza-2'-Deoxyguanosine Triphosphate," in <i>PCR Protocols: A Guide to Methods and Applications</i> , Innis, M.A., et al., eds., Academic Press, Inc., San Diego, CA, pp.54-59 (1990)		
I	AT	74		Instruction Manual for "GeneTrapper" cDNA Positive Selection System," Catalog No. 10356-020, GIBCO BRL, Life Technologies, Gaithersburg, MD, pp.1-26		

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 19 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,165	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BJB	AR	75	Iyer, R.P., et al., "The Automated Synthesis of Sulfur-Containing Oligodeoxyribonucleotides Using JH-1,2-Benzodithiol-3-one 1,1-Dioxide as a Sulfur-Transfer Reagent," J. Org. Chem. 55:4691-4699, American Chemical Society (1990)				
I	AS	75	Iyer, R.P., et al., "JH-1,2-Benzodithiole-3-one 1,1-Dioxide as an Improved Sulfurizing Reagent in the Solid-Phase Synthesis of Oligodeoxyribonucleoside Phosphorothioates," J. Am. Chem. Soc. 112:1253-1254, American Chemical Society (1990)				
I	AT	75	Jakob, R., and Saenger, W., "Reversed-phase ion-pair chromatographic separation of ribulose 1,5-bisphosphate from 3-phosphoglycerate and its application as a new enzyme assay for RuSP carboxylase/oxygenase," FEBS Lett. 183:111-114, Elsevier Science Publishers B.V. (1985)				
EXAMINER <i>B</i>					DATE CONSIDERED 12/23/05		
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 20 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.			
		FILING DATE November 12, 1999		GROUP 1635	

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B3p	AR	76	Johnstone, A., and Thorpe, R., "Production of antibodies," in <i>Immunochemistry in Practice</i> , Johnstone, A., and Thorpe, R., eds., Blackwell-Scientific Publications, Oxford, Great Britain, pp. 30-47, (1987)
	AS	76	Joung, I., and Engler, J.A., "Mutations in Two Cysteine-Histidine-Rich Clusters in Adenovirus Type 2 DNA Polymerase Affect DNA Binding," <i>J. Virol.</i> 66:5788-5796, American Society for Microbiology (1992)
	AT	76	Kondakova, N.V., et al., "Effect of Low-molecular Amines on the Conformation and Stability of the Double Helix," <i>Mol. Biol. (Mosk.)</i> 9:742-746, Izdatelstvo Nauka (1975)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:


Page 21 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.			
		FILING DATE November 12, 1999		GROUP 1615	

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BJP	AR	77	English Language Translation for Kondakova, N.V., et al., "Effect of Low-molecular Amines on the Conformation and Stability of the Double Helix," Mol. Biol. (Mosk.) 9:742-746, Izdatel'stvo Nauka (1975) (Document AR77)				
I	AS	77	Kotewicz, M.L., et al., "Isolation of cloned Moloney murine leukemia virus reverse transcriptase lacking ribonuclease H activity," Nucleic Acids Res. 16:265-277, IRL Press, Ltd. (1988)				
I	AT	77	Landre, P.A., et al., "The use of cosolvents to enhance amplification by the polymerase chain reaction," in PCR Strategies, Innis, M.A., et al., eds., Academic Press, San Diego, CA, pp. 3-16 (1995)				

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1542

Previously Submitted in:

Page 22 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1535	

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	AL						Yes No
	AM						Yes No
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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BSP +	AR	78	Langel, U. et al., "Cell penetrating PNA constructs," <i>J. Neurochem.</i> 69(suppl):S260, Abstract 8, Lippincott-Raven Publishers (July 1997)				
	AS	78	Lau, Q.C., et al., "Abrogation of c-Raf expression induces apoptosis in tumor cells," <i>Oncogene</i> 16:1899-1902, Stockton Press (April 1998)				
	AT	78	Lawyer, F.C., et al., "High-level Expression, Purification, and Enzymatic Characterization of Full-Length <i>Thermus aquaticus</i> DNA Polymerase and a Truncated Form Deficient in 5' to 3' Exonuclease Activity," <i>PCR Methods Appl.</i> 2:275-287, Cold Spring Harbor Laboratory Press (1993)				

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 23 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,165	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	
U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
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	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BJA	AR	72	La. Rudulier, D. et al., "Molecular Biology of Osmoregulation," Science 224:1064-1068, American Association for the Advancement of Science (1984)				
	AS	72	Li, C.-J., et al., "Nonprotein amino acids from seeds of Cycas circinalis and Phaseolus vulgaris," Phytochemistry 42:443-445, Pergamon Press (1996)				
	AT	72	1995-96 GIBCO/BRL Product Catalogue and Reference Guide, pp. 19-10 and 19-12, Life Technologies, Inc. (1995)				
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ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 24 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/TMN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
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	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BJA	AR	80	Liu, X., et al., "Hypoglycemia-induced c-Jun Phosphorylation Is Mediated by c-Jun N-terminal Kinase-1 and Lyn Kinase in Drug-resistant Human Breast Carcinoma MCF-7/ADR Cells," J. Biol. Chem. 272:11690-11693, The American Society for Biochemistry and Molecular Biology, Inc. (May 1997)				
I	AS	80	Malin, G., and Lapidot, A., "Induction of Synthesis of Tetrahydropyrimidine Derivatives in Streptomyces Strains and Their Effect on Escherichia coli in Response to Osmotic and Heat Stress," J. Bacteriol. 178:385-395, American Society for Microbiology (1996)				
I	AT	80	Maniatis, T., et al., "The Isolation of Structural Genes from Libraries of Eucaryotic DNA," Cell 15:687-701, MIT Press (1978)				
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/29/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 25 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/TMN		APPLICATION NO. 09/438,165	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	
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	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BDD 	AR	B1	Marquet, R. and Houssier, C.; "Thermodynamics of Cation-Induced DNA Condensation," <i>J. Biomol. Struct. & Dynam.</i> 9:159-167, Adenine Press (1991)				
	AS	B1	Mizuno, T., et al., "A unique mechanism regulating gene expression: Translational inhibition by a complementary RNA transcript (miRNA)," <i>Proc. Natl. Acad. Sci. USA</i> 81:1966-1970, National Academy Press (1984)				
	AT	B1	Monia, B.P., et al., "Sequence-specific antitumor activity of a phosphorothioate oligodeoxyribonucleotide targeted to human C-ras kinase supports an antisense mechanism of action in vivo," <i>Proc. Natl. Acad. Sci. USA</i> 93:15481-15484, National Academy Press (1996)				
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 26 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1535	

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJK	AR	82	Murphy, A.L., and Murphy, S.J., "Catch V22: the hitch-hiker's ride to gene therapy?" <i>Gene Ther.</i> 6:4-5, Nature Publishing Group (January 1999)
I	AS	82	Mytelka, D.S., and Chamberlin, M.J., "Analysis and suppression of DNA polymerase pauses associated with a trinucleotide consensus," <i>Nucleic Acids Res.</i> 24:2774-2781, Oxford University Press (1996)
I	AT	82	McCluskie, M.J., et al., "Direct Gene Transfer to the Respiratory Tract of Mice with Pure Plasmid and Lipid-Formulated DNA," <i>Antisense Nucleic Acid Drug Dev.</i> 8:401-414, Mary Ann Liebert, Inc. (October 1998)

EXAMINER	<i>[Signature]</i>	DATE CONSIDERED	12/23/05
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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 27 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/TM		APPLICATION NO. 09/438,365	
APPLICANT Chu et al.				FILING DATE November 12, 1999		GROUP 1635	
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	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BTP I	AR	B1	Nabel, G.J., et al., "Direct gene transfer for treatment of human cancer," Ann. NY Acad. Sci. 772:227-231, New York Academy of Sciences (1995)				
	AS	B1	Nabel, G.J., et al., "Immune responses in human melanoma after transfer of an allogeneic class I major histocompatibility complex gene with DNA-liposome complexes," Proc. Natl. Acad. Sci. USA 93:15388-15393, National Academy Press (1996)				
	AT	B1	Neckers, L.M., "Cellular Internalization of Oligodeoxynucleotides," in Antisense Research and Applications, Crooke, S.T. and Lebleu, B., eds., CRC Press, Inc., Boca Raton, FL, pp.451-460 (1993)				
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 28 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		GROUP 1635	
		FILING DATE November 12, 1999			

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B3b	AR	84	Neurath, A.R. et al., "B cell epitope mapping of human immunodeficiency virus envelope glycoproteins with long (19- to 36-residue) synthetic peptides," J. Gen. Virol. 71:85-95, Society for General Microbiology (1990)
I	AS	84	Niidome, T., et al., "Binding of Cationic α -Helical Peptides to Plasmid DNA and Their Gene Transfer Abilities into Cells," J. Biol. Chem. 272:15307-15312, The American Society for Biochemistry and Molecular Biology, Inc. (June 1997)
I	AT	84	Okayama, H., and Berg, P., "High-Efficiency Cloning of Full-Length cDNA," Mol. Cell. Biol. 2:161-170, American Society for Microbiology (1982)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 29 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJ# I	AR	81	Panaccio, M., et al., "Pelt PCR: A Simple PCR Protocol for Amplifying DNA Directly from Whole Blood," <i>BioTechniques</i> 14:238-243, Eaton Publishing Company (1993)
	AS	82	Paterson, B.M., et al., "Structural gene identification and mapping by DNA-mRNA hybrid-arrested cell-free translation," <i>Proc. Natl. Acad. Sci. USA</i> 74:4370-4374, National Academy Press (1977)
	AT	82	Polesky, A.H., et al., "Identification of Residues Critical for the Polymerase Activity of the Klenow Fragment of DNA Polymerase I from <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 265:14579-14591, The American Society for Biochemistry and Molecular Biology, Inc. (1990)

EXAMINER	DATE CONSIDERED 12/23/05
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 10 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/TBW		APPLICATION NO. 09/438.365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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	AL						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BSP I	AR	86	Prochiantz, A., "Getting hydrophilic compounds into cells: lessons from homeopeptides," <i>Curr. Opin. Neurobiol.</i> 6:629-634, Current Biology, Ltd. (1996)
	AS	86	Prochiantz, A., "Peptide nucleic acid smugglers," <i>Nat. Biotechnol.</i> 16:819-820, Nature America Publishing (September 1998)
	AT	86	Rafferty, J.A., and Fletcher, H.L., "Sequence analysis of a family of highly repeated DNA units in <i>Stauroderus scalaris</i> (Orthoptera)" <i>Incl. J. Genome Res.</i> 1:1-16, World Scientific Publishing Company (1992)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 31 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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	AM						Yes No
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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJD	AR	87	Rajendrakumar, C.S.V., et al., "DNA helix destabilization by proline and betaine: possible role in the salinity tolerance process," FEBS Lett. 410:201-205, Elsevier Science B.V. (June 1997)
	AS	87	Randall, K., et al., "Accumulation of natural and synthetic betaines by a mammalian renal cell line," Biochem. Cell Biol. 74:283-287, National Research Council of Canada (1996)
	AT	87	Randall, K., et al., "Natural and synthetic betaines counter the effects of high NaCl and urea concentrations," Biochim. Biophys. Acta 1291:189-194, Elsevier Science B.V. (1996)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:


Page 32 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

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	AM						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJD I	AR	88	Rees, W.A., et al., "Betaine Can Eliminate the Base Pair Composition Dependence of DNA Melting," <i>Biochemistry</i> 32:137-144, American Chemical Society (1993)
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	AT	88	Saiki, R.K., et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487-491, American Association for the Advancement of Science (1988)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 33 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/TEN		APPLICATION NO. 09/433.365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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	AL						Yes No
	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
B00 I	AR	82	Shepard, A.R., and Rae, J.L., "Magnetic bead capture of cDNAs from double-stranded plasmid cDNA libraries," <i>Nucleic Acids Res.</i> 25:3181-3185, Oxford University Press (August 1997)				
	AS	82	Bioactive Peptides, 1993 Sigma Chemical Company Catalogue, St. Louis, MO, pp. 1028-1036, Sigma Chemical Company (1993)				
	AT	82	Soltis, D.A., and Skelka, A.M., "The α and β chains of avian retrovirus reverse transcriptase independently expressed in <i>Escherichia coli</i> : Characterization of enzymatic activities," <i>Proc. Natl. Acad. Sci. USA</i> 85:3372-3376, National Academy Press (1988)				

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629.522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 34 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TGN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		GROUP 1635	
		FILING DATE November 12, 1999			

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	AL						Yes No
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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B7D	AR	90	Stopeck, A.T., et al., "Phase I Study of Direct Gene Transfer of an Allogeneic Hiscocompatibility-Antigen: HLA-B7, in Patients With Metastatic Melanoma," J. Clin. Oncol. 15:341-349, American Society of Clinical Oncology (January 1997)
I	AS	90	Szoka Jr., F., and Papahadjopoulos, D., "Comparative properties and methods of preparation of lipid vesicles (liposomes)," Annu. Rev. Biophys. Bioeng. 9:467-508, Annual Reviews, Inc. (1980)
I	AT	90	Tang, D.-c., et al., "Genetic immunization is a simple method for eliciting an immune response," Nature 356:152-154, Nature Publishing Group (1992)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT: Chu et al.		GROUP 1642

Previously Submitted in:

Page 35 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1615	

U.S. PATENT DOCUMENTS							
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
B J H I	AR	21	Thompson, L., "A Shot in the Arm for Vaccine Problems," Washington Post, p. A03 (June 7, 1993)				
	AS	21	Uhlmann, E., and Peyman, A., "Antisense Oligonucleotides: A New Therapeutic Principle," Chem. Rev. 90:544-584, American Chemical Society (1990).				
	AT	21	Ulmer, J.B., et al., "Heterologous Protection Against Influenza by Injection of DNA Encoding a Viral Protein," Science 259:1745-1749, American Association for the Advancement of Science (1993)				

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 16 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TEN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		GROUP 1635	
		FILING DATE November 12, 1999			

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							Yes
	AL						No
	AM						Yes
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	AN						Yes
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	AO						Yes
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	AP						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BPA	AR	22	Urdea, M.S., "Branched DNA Signal Amplification," Bio/Technology 12:926-928, Nature Publishing Company (1994)
I	AS	22	van der Krol, A.R., et al., "Modulation of Eukaryotic Gene Expression by Complementary RNA or DNA Sequences," BioTechniques 6:958-976, Eaton Publishing Company (1988)
I	AT	22	Varadaraj, K. and Skinner, D.M., "Denaturants or cosolvents improve the specificity of PCR amplification of a G-C-rich DNA using genetically engineered DNA polymerases," Gene 140:1-5, Elsevier Science B.V. (1994)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 37 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RNE/THM		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BTD	AR	21	Voytik-Margin, S.L., et al., "Identification of Extractable Growth Factors From Small Intestinal Submucosa," J. Cell. Biochem. 67:478-491, Wiley-Liss, Inc. (December 1997)
I	AS	22	Wagner, E., et al., "Transferrin-polycation-DNA complexes: The effect of polycations on the structure of the complex and DNA delivery to cells," Proc. Natl. Acad. Sci. USA 88:4255-4259, National Academy Press (1991)
I	AT	23	Wang, B., et al., "Gene inoculation generates immune responses against human immunodeficiency virus type 1," Proc. Natl. Acad. Sci. USA 90:4156-4160, National Academy Press (1993)

EXAMINER	DATE CONSIDERED
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 38 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438.365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BJD I	AR	24	Weissensteiner, T., and Lanchbury, J.S., "Strategy for Controlling Preferential Amplification and Avoiding False Negatives in PCR Typing," <i>BioTechniques</i> 21:1102-1108, Eaton Publishing Company (1996)				
	AS	24	Wen, W., et al., "Identification of a Signal for Rapid Export of Proteins from the Nucleus," <i>Cell</i> 82:463-473, Cell Press (1995)				
	AT	24	Wickstrom, E.L., et al., "Human promyelocytic leukemia HL-60 cell proliferation and c-myc protein expression are inhibited by an antisense pentadecadeoxynucleotide targeted against c-myc mRNA," <i>Proc. Natl. Acad. Sci. USA</i> 85:1028-1032, National Academy Press (1988)				

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 39 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TRN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.			
		FILING DATE November 12, 1999		GROUP 1635	

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B2A	AR	25	Wickstrom, E., et al., "Down-Regulation of c-MYC Antigen Expression in Lymphocytes of Eμ-c-myc Transgenic Mice Treated with Anti-c-myc DNA Methylphosphonates," <i>Cancer Res.</i> 52:6741-6745, American Association for Cancer Research (1992)
	AS	25	Woodford, K., et al., "The Use of K ⁺ -free buffers eliminates a common cause of premature chain termination in PCR and PCR sequencing," <i>Nucleic Acids Res.</i> 23:539, Oxford University Press (1995)
	AT	25	Zaitsev, S.V., et al., "H1 and HMGI7 extracted from calf thymus nuclei are efficient DNA carriers in gene transfer," <i>Gene Ther.</i> 4:586-592, Stockton Press (June 1997)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 40 of 42

FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BTP I	AR	26	"Voyager" - The Power of Translocation, Expressions 6:6, Life Technologies, Inc. (February 1999)				
	AS	26	Dialog File 351, Accession No. 8899481, Derwent WPI English language abstract for WO 93/08130 A1 (Document AO12)				
	AT	26	Dialog File 351, Accession No. 10428036, Derwent WPI English language abstract for DE 44 11 588 C1 (Document AN14)				

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 41 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
				GROUP 1635	

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BSJ	AR	27	Dialog File 351, Accession No. 10524091, Derwent WPI English language abstract for DE 44 11 594 C1 (Document AP14)
	AS	27	Dialog File 351, Accession No. 10655226, Derwent WPI English language abstract for WO 96/08723 A1 (Document AL15)
	AT	27	Copy of co-pending U.S. Patent Application No. 09/266,935, filed March 12, 1999, inventors Li et al. (NOT PUBLISHED)

EXAMINER	DATE CONSIDERED 12/23/05
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 42 of 42

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
Bjb	AR	28	Copy of co-pending U.S. application 09/570,526, filed May 12, 2000, inventors Astatke et al. (NOT PUBLISHED)
I	AS	28	Copy of co-pending U.S. application 09/608,066, filed June 30, 2000, inventors Astatke et al. (NOT PUBLISHED)
	AT		

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 2 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,165	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

U.S. PATENT DOCUMENTS							
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BTD		AL4 WO 87/02061 A1	04/09/1987	WIPO			Yes No
		AM4 WO 90/09786 A1	09/07/1990	WIPO			Yes No
		AN4 EP 0 304 111 B1	10/16/1991	Europe			Yes No X
		AO4 WO 91/04668 A1	04/18/1991	WIPO			Yes No X
		AP4 WO 91/04753 A1	04/18/1991	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BTD	AR	2	Aumailley, M., et al., "Cell-Attachment Properties of Collagen Type VI and Arg-Gly-Asp Dependent Binding to its α2(VI) and α3(VI) Chains," Exp. Cell Res. 181:463-474, Academic Press, Inc. (1989)
	AS	2	Barthel, F., et al., "Laboratory Methods: Gene Transfer Optimization with Lipospermine-Coated DNA," DNA Cell Biol. 12:551-560, Mary Ann Liebert, Inc. (1993)
	AT	2	Behr, J-P., "Synthetic Gene-Transfer Vectors," Acc. Chem. Res. 26:274-278, American Chemical Society (1993)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 3 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,165	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1535			

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BJP	AL5	WO 91/08191 A1	06/13/1991	WIPO			Yes No
	AM5	WO 91/07947 A1	06/13/1991	WIPO			Yes No
	AN5	DD 290 877 A5	06/13/1991	Germany			Yes X No
	AO5	WO 91/15501 A1	10/17/1991	WIPO			Yes No
	AP5	WO 91/16024 A1	10/31/1991	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJP	AR	§	Bielinska, A., et al., "Regulation of in vitro gene expression using antisense oligonucleotides or antisense expression plasmids transfected using starburst PAMAM dendrimers," Nucleic Acids Res. 24:2176-2182, Oxford University Press (1996)
	AS	§	Bonifaci, N., et al., "Nuclear translocation of an exogenous fusion protein containing HIV Tat requires unfolding," AIDS 9:995-1000, Rapid Science Publishers (1995)
	AT	§	Braunlin, W.H., et al., "Equilibrium Dialysis Studies of Polyamine Binding to DNA," Biopolymers 21:1301-1314, John Wiley & Sons, Inc. (1982)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 4 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BDD	AL6	WO 92/13570 A2	08/20/1992	WIPO	/		Yes X No
I	AM6	WO 92/21752 A1	12/10/1992	WIPO			Yes No
I	AN6	EP 0 359 347 B1	12/23/1992	Europe			Yes No
I	AO6	WO 92/22635 A1	12/23/1992	WIPO			Yes No
I	AP6	WO 93/05162 A1	03/18/1993	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BDD	AR	2	Budker, V. et al., "Protein/Amphipathic Polyamine Complexes Enable Highly Efficient Transfection with Minimal Toxicity," <i>Biotechniques</i> 23:139-147, Eaton Publishing Company (July 1997)
I	AS	2	Caminati, G., et al., "Photophysical Investigation of Starburst Dendrimers and Their Interactions with Anionic and Cationic Surfactants," <i>J. Am. Chem. Soc.</i> 112:8515-8522, American Chemical Society (1990)
I	AT	2	Carrasco, L., "Modification of Membrane Permeability Induced by Animal Viruses Early in Infection," <i>Virology</i> 113:623-629, Academic Press, Inc. (1981)

EXAMINER	<i>BDD</i>	DATE CONSIDERED	12/23/05
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 39/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BDD	AL7	WO 93/07282 A1	04/15/1993	WIPO			X Yes No
I	AM7	WO 93/07283 A1	04/15/1993	WIPO			X Yes No
I	AN7	AU-B-26526/92	05/03/1993	Australia			Yes No
I	AO7	EP 0 544 292 A2	06/02/1993	Europe			X Yes No
I	AP7	WO 93/19768 A1	10/14/1993	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BDD	AR	10	Cartesco, L., and Esteban, M., "Modification of Membrane Permeability in Vaccinia Virus-Infected Cells," Virology 117:62-69, Academic Press, Inc. (1982)
I	AS	10	Ciccarone, V., et al., "Cationic liposome-mediated transfection of eukaryotic cells: High efficiency nucleic acid delivery with lipofectin [®] , lipofectace [™] , and lipofectamine [™] reagents," FASEB J. 7:A1131, Abstract No. 454, Federation of American Societies for Experimental Biology (1993)
I	AT	10	Ciccarone, V., et al., "DMRIE-C reagent for transfection of suspension cells and for RNA transfections," Focus 17:84-87, Life Technologies, Inc. (1995)

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12/23/95	12/23/95

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 6 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1615			

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
Bjp	ALB	WO 94/04696 A1	03/03/1994	WIPO			Yes No
I	AMB	WO 94/05624 A1	03/17/1994	WIPO			Yes No
I	ANB	WO 94/23751 A1	10/27/1994	WIPO			Yes No X
I	AOB	WO 95/02397 A1	01/26/1995	WIPO			Yes No
I	APB	WO 95/21259 A1	08/10/1995	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
Bjb	AR	11	Citovsky, V., et al., "Nuclear Localization of Agrobacterium VirE2 Protein in Plant Cells," Science 256:1802-1805, American Association for the Advancement of Science (1992)
I	AS	11	Cotten, M., et al., "Transferrin-polycation-mediated introduction of DNA into human leukemic cells: Stimulation by agents that affect the survival of transfected DNA or modulate transferrin receptor levels," Proc. Natl. Acad. Sci. USA 87:4031-4037, National Academy Press (1990)
I	AT	11	Cotten, M., et al., "High-efficiency receptor-mediated delivery of small and large (48 kilobase gene constructs using the endosome-disruption activity of defective or chemically inactivated adenovirus particles," Proc. Natl. Acad. Sci. USA 89:6094-6098, National Academy Press (1992)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 7 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TGN		APPLICATION NO. 09/438.165	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.			
		FILING DATE November 12, 1999		GROUP 1635	

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
Bjo	AL9	WO 95/24221 A1	09/14/1995	WIPO	/		Yes No
I	AM9	WO 95/31557 A1	11/23/1995	WIPO			Yes No
	AN9	WO 96/01841 A1	01/25/1996	WIPO			Yes No
	AO9	WO 96/10038 A1	04/04/1996	WIPO			Yes No
	AP9	WO 96/05218 A1	02/22/1996	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
Bjo	AR	12	Curiel, D.T., et al., "Adenovirus enhancement of transferrin-polylysine-mediated gene delivery," <i>Proc. Natl. Acad. Sci. USA</i> 88:8856-8859; National Academy Press (1991)
I	AS	12	Curiel, D.T., et al., "High-Efficiency Gene Transfer Mediated by Adenovirus Coupled to DNA-Polylysine Complexes," <i>Hum. Gene Ther.</i> 3:147-154, Mary Ann Liebert, Inc. (1992)
I	AT	12	Curiel, D.T., et al., "Gene Transfer to Respiratory Epithelial Cells via the Receptor-mediated Endocytosis Pathway," <i>Am. J. Respir. Cell Mol. Biol.</i> 6:247-252, American Thoracic Society (1992)

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 8 of 52

FORM PTO-1449				ATTY. DOCKET NO. 0942.4650001/RWE/TGN		APPLICATION NO. 09/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				APPLICANT Chu et al.			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BJD	AL10	WO 96/15811 A1	05/30/1996	WIPO			Yes No
	AM10	WO 96/22321 A1	07/25/1996	WIPO			Yes No
	AN10	WO 96/22765 A1	08/01/1996	WIPO			Yes No
	AO10	WO 96/31549 A1	10/10/1996	WIPO			Yes No
	AP10	WO 98/14439 A1	04/09/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJD	AR	11	Dattagupta, N.P., and Albarella, J.P., "Photochemical nucleic acid-labeling reagent having a polyalkylamine spacer," Chemical Abstracts 114:383, Abstract No. 114:78227w, American Chemical Society (1991)
	AS	11	Dayhoff, M.O., et al., "A Model of Evolutionary Change in Proteins," in Atlas of Protein Sequence and Structure, Vol. 5, Suppl. 3, Dayhoff, M.O., ed., National Biomedical Research Foundation, Washington, D.C. pp.345-352 (1978)
	AT	11	De Robertis, E.M., et al., "Intracellular migration of nuclear proteins in <i>Xenopus</i> oocytes," Nature 272:254-256, Macmillan Journals, Ltd. (1978)

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APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438.165	
				APPLICANT Chu et al.		FILING DATE November 12, 1999	
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
Bjp	AR	14	Dedhar, S., et al., "A Cell Surface Receptor Complex for Collagen Type I Recognizes the Arg-Gly-Asp Sequence," J. Cell Biol. 104:585-593, The Rockefeller University Press (1987)				
	AS	14	Demeneix, B.A., et al., "Gene transfer into intact vertebrate embryos," Int. J. Dev. Biol. 35:481-484, USC Press (1991)				
	AT	14	Dingwall, C., and Laskey, R.A., "Nuclear targeting sequences - a consensus?" Trends Biochem. Sci. 16:478-481, Elsevier Science Publishers, (UK) (1991)				
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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 10 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BSP +	AR	15	Dingwall, C., et al., "Human immunodeficiency virus 1 tat protein binds trans-activation-responsive region (TAR) RNA in vitro," <i>Proc. Natl. Acad. Sci. USA</i> 86:6925-6929, National Academy Press (1989)				
	AS	15	Düzgünes, N., et al., "Fusion of Liposomes Containing a Novel Cationic Lipid, N-(2,3-(Dioleloxy)propyl)-N,N,N-trimethylammonium: Induction by Multivalent Anions and Asymmetric Fusion with Acidic Phospholipid Vesicles," <i>Biochemistry</i> 28:9179-9184, American Chemical Society (1989)				
	AT	15	Dwarki, V.J., et al., "Cationic Liposome-Mediated RNA Transfection," <i>Methods Enzymol.</i> 217:644-654, Academic Press, Inc. (1993)				

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

FORM PTO-1449		SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438.365	
				APPLICANT Chu et al.		FILING DATE November 12, 1999	
				GROUP 1635			
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	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BSP	AR	16		Spand, R.M., et al., "Peptide Models for the Membrane Destabilizing Actions of Viral Fusion Proteins," Biopolymers 32:309-314, John Wiley & Sons, Inc. (1992)			
	AS	16		Bytan, G.D., "Use of Liposomes for reconstitution of biological functions," Biochim. Biophys. Acta 694:185-202, Elsevier Biomedical Press (1982)			
	AT	16		Favell, S., et al., "Tac-mediated delivery of heterologous proteins into cells," Proc. Natl. Acad. Sci. USA 91:664-668, National Academy Press (1994)			
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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 12 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THM		APPLICATION NO. 09/438,165	
				APPLICANT Chu et al.			
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJD	AR	17	Feigner, P.L., and Ringold, G.M., "Cationic liposome-mediated transfection," <i>Nature</i> 337:387-388, Nature Publishing Group (1989)
	AS	12	Finlay, D.R., et al., "Nuclear transport in vitro," <i>J. Cell Sci. Suppl.</i> 11:225-242, The Company of Biologists Ltd. (1989)
	AT	17	FitzGerald, D.J.P., et al., "Adenovirus-Induced Release of Epidermal Growth Factor and Pseudomonas Toxin into the Cytosol of KB Cells during Receptor-Mediated Endocytosis," <i>Cell</i> 32:607-617, Cell Press (1983)

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ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 13 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.			
		FILING DATE November 12, 1999		GROUP 1635	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BTD	AR	18	Frankel, A.D., et al., "Activity of synthetic peptides from the Tac protein of human immunodeficiency virus type 1," Proc. Natl. Acad. Sci. USA 86:7397-7401, National Academy Press (1989)
I	AS	18	Friedlander, D.R., et al., "Functional Mapping of Cytotactin: Proteolytic Fragments Active in Cell-Substrate Adhesion," J. Cell Biol. 107:2329-2340, The Rockefeller University Press (1988)
I	AT	18	Geo, X., and Huang, L., "Potentiation of Cationic Liposome-Mediated Gene Delivery by Polycations," Biochemistry 35:1027-1036, American Chemical Society (1996)

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 14 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,165	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BDD	AR	12	Garcia-Bustos, J., et al., "Nuclear protein localization," <i>Biochim. Biophys. Acta</i> 1071:83-101, Elsevier Science Publishers B.V. (1991)				
I	AS	12	Gardner, J.M., and Hynes, R.O., "Interaction of Fibronectin with Its Receptor on Platelets," <i>Cell</i> 42:439-448, Cell Press (1985)				
I	AT	12	Garrigues, B., and Vidaud, L., "Synthesis of spermine and spermidine selectively substituted on the secondary amine functions," <i>Chemical Abstracts</i> 111:593, Abstract No. 23282t, American Chemical Society (1989)				

EXAMINER	<i>[Signature]</i>	DATE CONSIDERED	12/23/05
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 15 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,165	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		FILING DATE November 12, 1999		GROUP 1635	

U.S. PATENT DOCUMENTS							
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJP	AR	20	Goldfarb, D.S., et al., "Synthetic peptides as nuclear-localization signals," <i>Nature</i> 322:641-644, Nature Publishing Group (1986)
I	AS	20	Goldfarb, D., and Michaud, N., "Pathways for the nuclear transport of proteins and RNAs," <i>Trends Cell Biol.</i> 1:20-24, Elsevier Science Publishers, Ltd (UK) (1991)
I	AT	20	Gould-Fogerite, S., et al., "Chimerasome-mediated gene transfer in vitro and in vivo," <i>Gene</i> 84:429-438, Elsevier (1989)

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 16 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4650001/RWE/TKN	APPLICATION NO. 09/438,365
	APPLICANT Chu et al.	
	FILING DATE November 12, 1999	GROUP 1615

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

BOP	AR	21	Grant, D.S., et al., "Two Different Laminin Domains Mediate the Differentiation of Human Endothelial Cells into Capillary-like Structures In Vitro," Cell 58:933-943, Cell Press (1989)
I	AS	21	Hackh's Chemical Dictionary, 4th ed., Grant, J., ed., McGraw-Hill Book Company, New York, NY p.391 (1969)
I	AT	21	Haensler, J., and Szoka Jr., F.C., "Polyamidoamine Cascade Polymers Mediate Efficient Transfection of Cells in Culture," Bioconjug. Chem. 4:172-179, American Chemical Society (1993)

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 17 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/TDN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJA	AR	22	Hagstrom, J.E., et al., "Complexes of non-cationic liposomes and histone H1 mediate efficient transfection of DNA without encapsulation," <i>Biochim. Biophys. Acta</i> 1284:47-55, Elsevier Science B.V. (1996)
I	AS	22	Hamada, K., et al., "N-Methylthermospermine in leguminous seeds," <i>Chemical Abstracts</i> 117:427, Abstract No. 117:86723g, American Chemical Society (1992)
I	AT	22	Harbottle, R.C., et al., "RGD-mediated gene delivery and expression in epithelial cells," <i>Gene Therapy and Molecular Medicine. Keystone Symposium, Steamboat Springs, CO., March 26-April 1, 1995, J. Cell Biochem. Suppl. 21A:394, Abstract No. C6-321, Wiley-Liss (1995)</i>

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 18 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438.365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B3p	AR	22	Haverstick, D.M., et al., "Inhibition of Platelet Adhesion to Fibrinogen, Fibrinogen, and von Willebrand Factor Substrates by a Synthetic Tetrapeptide Derived From the Cell-Binding Domain of Fibrinectin." Blood 66:946-952, Harcourt Brace Jovanovich (1985)
	AS	22	Hawley-Nelson, P., et al., "LipofectAMINE" reagent: A new, higher efficiency polycationic liposome transfection reagent." Focus 15:73-79, Life Technologies, Inc. (1993)
	AT	22	Hetschko, M., and Gosselck, J., "Reaktionen von sulfoniumsalzen des 1,3-dithiolans und seiner 2,2-substitutionsprodukte." Tetrahedron Lett. 17:1691-1692, Pergamon Press (1972)

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 19 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJP	AR	24	Huckett, B., et al., "Evidence for targeted gene transfer by receptor-mediated endocytosis," <i>Biochem. Pharmacol.</i> 40:253-263, Pergamon Press (1990)
	AS	24	Humphries, M.J., et al., "Identification of an Alternatively Spliced Site in Human Plasma Fibronectin That Mediates Cell Type-specific Adhesion," <i>J. Cell Biol.</i> 103:2637-2647, The Rockefeller University Press (1986)
	AT	24	Humphries, M.J., et al., "Identification of Two Distinct Regions of the Type III Connecting Segment of Human Plasma Fibronectin That Promote Cell Type-specific Adhesion," <i>J. Biol. Chem.</i> 262:6886-6892, American Society for Biochemistry and Molecular Biology (1987)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 20 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<div style="font-size: 2em;">B3b</div> <div style="font-size: 4em;">I</div>	AR	25	Ito, A., et al., "Synthetic cationic amphiphiles for liposome-mediated DNA transfection," <i>Biochem. Incl.</i> 22:235-241, Academic Press Australia (1990)
	AS	25	Kalderon, D., et al., "A Short Amino Acid Sequence Able to Specify Nuclear Location," <i>Cell</i> 39:499-509, Cell Press (1984)
	AT	25	Kanata, H., et al., "Amphiphilic peptides enhance the efficiency of liposome-mediated DNA transfection," <i>Nucleic Acids Res.</i> 22:536-537, Oxford University Press (1994)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 21 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJP	AR	26	Kaneda, Y., et al., "The Improved Efficient Method for Introducing Macromolecules into Cells Using HVJ (Sendai Virus) Liposomes with Gangliosides," Exp. Cell Res. 173:56-69, Academic Press, Inc. (1987)
I	AS	26	Kaneda, Y., et al., "Introduction and Expression of the Human Insulin Gene in Adult Rat Liver," J. Biol. Chem. 264:12126-12129, The American Society for Biochemistry and Molecular Biology, Inc. (1989)
I	AT	26	Kaneda, Y., et al., "Increased Expression of DNA Coincroduced with Nuclear Protein in Adult Rat Liver," Science 243:375-378, American Association for the Advancement of Science (1989)

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 22 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BOP	AR	27	Karlsson, S., et al., "Transfer of genes into hematopoietic cells using recombinant DNA viruses," <i>Proc. Natl. Acad. Sci. USA</i> 82:158-162, National Academy Press (1985)
	AS	27	Kielian, M., and Helenius, A., "Entry of Alphaviruses" in <i>The Togaviridae and Flaviviridae</i> , Schlesinger, S., and Schlesinger, M.J., eds., Plenum Press, New York, NY, pp.91-119 (1986)
	AT	27	Kirsch, T., et al., "Cloning, High-Yield Expression in <i>Escherichia coli</i> , and Purification of Biologically Active HIV-1 Tat Protein," <i>Protein Expr. Purif.</i> 8:75-84, Academic Press, Inc. (1996)

EXAMINER	<i>B</i>	DATE CONSIDERED	12/23/05
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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in

Page 23 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
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U.S. PATENT DOCUMENTS							
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BJO	AR	28	Klappe, K. et al., "Parameters Affecting Fusion between Sendai Virus and Liposomes. Role of Viral Proteins, Liposome Composition, and pH," <i>Biochemistry</i> 25:8252-8260, American Chemical Society (1986)				
	AS	28	Knodis, Z., and Valiuliene, S., "New reactions of 1,1-diamines," <i>Chemical Abstracts</i> 120:1056, Abstract No. 270276b, American Chemical Society (1994)				
	AT	28	Konopka, K., et al., "Enhancement of human immunodeficiency virus type 1 infection by cationic liposomes: the role of CD4, serum and liposome-cell interactions," <i>J. Gen. Virol.</i> 72:2685-2696, Society for General Microbiology (1991)				

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 24 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TRM		APPLICATION NO. 09/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.			
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BSP	AR	22	Kraaijeveld, C.A. et al., "The effect of liposomal charge on the neutralizing antibody response against inactivated encephalomyocarditis and Seeliki Forest viruses," Clin. Exp. Immunol. 56:509-514, Blackwell Scientific Publications (1984)
	AS	22	Kukowska-Latallo, J.F., et al., "Efficient transfer of genetic material into mammalian cells using Starburst polyamidoamine dendrimers," Proc. Natl. Acad. Sci. USA 93:4897-4902, National Academy Press (1996)
	AT	22	Lanford, R.E., et al., "Comparison of Diverse Transport Signals in Synthetic Peptide-Induced Nuclear Transport," Exp. Cell Res. 186:32-38, Academic Press, Inc. (1990)

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 25 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
B00 I	AR	10	Lanford, R.E., et al., "Induction of Nuclear Transport With a Synthetic Peptide Homologous to the SV40 T Antigen Transport Signal," Cell 46:575-582, Cell Press (1986)				
	AS	10	Lepidoc, M., and Loyter, A., "Fusion-Mediated Microinjection of Liposome-Enclosed DNA into Cultured Cells with the Aid of Influenza Virus Glycoproteins," Exp. Cell Res. 189:241-246, Academic Press, Inc. (1990)				
	AT	10	Lawler, J., et al., "Cell Attachment to Thrombospondin: The Role of ARG-GLY-ASP, Calcium, and Integrin Receptors," J. Cell. Biol. 107:2351-2361, The Rockefeller University Press (1988)				

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Form PTO-1449

ATTY DOCKET NO. 61-03A

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FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 26 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4650001/RME/THN APPLICANT Chu et al. FILING DATE November 12, 1999	APPLICATION NO. 09/438,365 GROUP 1635
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U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

B3P	AR	11	Ledley, F.D., "Clinical Considerations in the Design of Protocols for Somatic Gene Therapy," Hum. Gene Ther. 2:77-83, Mary Ann Liebert, Inc. (1991)
I	AS	11	Legembre, J-Y., et al., "Delivery of Plasmid DNA into Mammalian Cell Lines Using pH-Sensitive Liposomes: Comparison with Cationic Liposomes," Pharm. Res. 9:1235-1242, Plenum Publishing Corporation (1992)
I	AT	11	Legembre, J-Y., et al., "Cyclic amphipathic peptide-DNA complexes mediate high-efficiency transfection of adherent mammalian cells," Proc. Natl. Acad. Sci. USA 90:893-897, National Academy Press (1993)

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 27 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THH		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BJP	AR	22	Life Technologies 1993-1994 Catalog and Reference Guide, pp. 9-19 Co 9-21, I-66, R-48 to R-51, Life Technologies, Inc. (1993)				
I	AS	22	Liljeström, P., and Garoff, H., "A new generation of animal cell expression vectors based on the Semliki Forest virus replicon," <i>Biotechnology (N.Y)</i> 9:1356-1361, Nature Publishing Company (1991)				
I	AT	22	Loeffler, J-P., and Behr, J-P., "Gene Transfer into Primary and Established Mammalian Cell Lines with Lipopolyamine-Coated DNA," <i>Methods Enzymol.</i> 217:599-618, Academic Press, Inc. (1993)				

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 28 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THM		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BSP	AR	11	Loyter, A., et al., "Mechanisms of DNA uptake by mammalian cells: Fate of exogenously added DNA monitored by the use of fluorescent dyes," Proc. Natl. Acad. Sci. USA 79:422-426, National Academy Press (1982)
I	AS	11	Malone, R.W. et al., "Cationic liposome-mediated RNA transfection," Proc. Natl. Acad. Sci. USA 86:6077-6081, National Academy Press (1989)
I	AT	11	Mann, D.A., and Frankel, A.D., "Endocytosis and targeting of exogenous HIV-1 Tat protein," EMBO J. 10:1733-1739, Oxford University Press (1991)

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted in:

Page 29 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/TBN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1615	

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BSP	AR	24	Marshall M., et al., "Interactions of Semliki Forest Virus Spike Glycoprotein Rosettes and Vesicles with Cultured Cells," J. Cell Biol. 96:455-461, The Rockefeller University Press (1983)				
	AS	24	Mason, P.W., et al., "RGD sequence of foot-and-mouth disease virus is essential for infecting cells via the natural receptor but can be bypassed by an antibody-dependent enhancement pathway," Proc. Natl. Acad. Sci. USA 91:1932-1936, National Academy Press (1994)				
	AT	24	Mazur, W., et al., "The Efficiency of Lipofectin-Mediated Gene Transfer into Porcine and Human Coronary Smooth Muscle Cells is Dramatically Improved by the Influenza Virus Hemagglutinin Antigen," J. Am. Coll. Cardiol. Suppl. 21:186A, Abstract No. 889-11, Elsevier (1993)				

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 10 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BDD	AR	15	Miyahara, A., et al., "Partial Cell-Free Assembly of VSV-G Pseudotyped Retrovirus Particles," Molecular and Cell Biology of Gene Therapy, Keystone, Colorado, meeting date January 19-25, 1998, Abstract No. 007, p.14, Keystone Symposia (December 1997)
I	AS	15	Murata, M., et al., "Modification of the N-terminus of membrane fusion-active peptides blocks the fusion activity," Biochem. Biophys. Res. Commun. 179:1050-1055, Academic Press, Inc. (1991)
I	AT	15	Neugebauer, J.M., "Detergents: An Overview," Methods Enzymol. 182:239-253, Academic Press, Inc. (1990)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 31 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN	APPLICATION NO. 09/438,365
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.	
		FILING DATE November 12, 1999	GROUP 1635

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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BJP	AR	16	Otero, M.J., and Carrasco, L., "Proteins are Cointernalized with Virion Particles during Early Infection," <i>Virology</i> 160:75-80, Academic Press, Inc. (1987)
I	AS	16	Parente, R.A., et al., "Association of a pH-Sensitive Peptide with Membrane Vesicles: Role of Amino Acid Sequence," <i>Biochemistry</i> 29:8713-8719, American Chemical Society (1990)
I	AT	16	Parente, R.A., et al., "Mechanism of Leakage of Phospholipid Vesicle Contents Induced by the Peptide GALA," <i>Biochemistry</i> 29:8720-8728, American Chemical Society (1990)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 32 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THM		APPLICATION NO. 09/438,165	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

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	AL						Yes No
	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
B3D 	AR	17	Pascan, J.H., and Willingham, M.C., "Journey to the Center of the Cell: Role of the Receptosome," <i>Science</i> 214:504-509, American Association for the Advancement of Science (1981)				
	AS	17	Pepinsky, R.B., et al., "Specific Inhibition of a Human Papillomavirus E2 Trans-Activator by Intracellular Delivery of Its Repressor," <i>DNA Cell Biol.</i> 13:1011-1019, Mary Ann Liebert, Inc. (1994)				
	AT	17	Phalen, T., and Kielian, M., "Cholesterol Is Required for Infection by Semliki Forest Virus," <i>J. Cell Biol.</i> 112:615-623, The Rockefeller University Press (1991)				

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 33 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TRN	APPLICATION NO. 09/438,365
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.	
		FILING DATE November 12, 1999	GROUP 1635

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BDD	AR	18	Pierschbacher, M.D., and Ruoslahti, E., "Cell attachment activity of fibronectin can be duplicated by small synthetic fragments of the molecule," <i>Nature</i> 309:30-33, Nature Publishing Group (1984)
I	AS	18	Pierschbacher, M.D., and Ruoslahti, E., "Influence of Stereochemistry of the Sequence Arg-Gly-Asp-Xaa on Binding Specificity in Cell Adhesion," <i>J. Biol. Chem.</i> 262:17294-17298, The American Society for Biochemistry and Molecular Biology, Inc. (1987)
I	AT	18	Pinnaduwa, P., et al., "Use of a quaternary ammonium detergent in liposome mediated DNA transfection of mouse L-cells," <i>Biochim. Biophys. Acta</i> 985:33-37, Elsevier (1989)

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ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 34 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Page's, etc.)			
B00	AR	32	Poste, G. et al., "Lipid Vesicles as Carriers for Introducing Biologically Active Materials into Cells," <i>Methods Cell Biol.</i> 14:33-71, Academic Press, Inc. (1976)
I	AS	32	"Eukaryotic transcription and Reporter Systems", 1993/94 Promega Catalog, p.251 Promega Corporation (1993)
I	AT	32	Remy, J-S., et al., "Targeted gene transfer into hepatoma cells with lipopolyamine-condensed DNA particles presenting galactose ligands: A stage toward artificial virus," <i>Proc. Natl. Acad. Sci. USA</i> 92:1744-1748, National Academy Press (1995)

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APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:


Page 35 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/TRM		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BSP I	AR	10	Rihs, H-P., et al., "The rate of nuclear cytoplasmic proteip transport is determined by the casein kinase II site flanking the nuclear localization sequence of the SV40 T-antigen," EMBO J. 10:633-639, Oxford University Press (1991)
	AS	10	Rihs, H-P., and Peters, R., "Nuclear transport kinetics depend on phosphorylation-site-containing sequences flanking the karyophilic signal of the Simian virus 40 T-antigen," EMBO J. 8:1479-1484, IRL Press (1989)
	AT	10	Rose, J.X., et al., "A New Cationic Liposome Reagent Mediating Nearly Quantitative Transfection of Animal Cells," Biotechniques 10:520-525, Eaton Publishing Company (1991)

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ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 36 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4650001/RME/TSM		APPLICATION NO. 09/438.365	
		APPLICANT Chu et al.			
		FILING DATE November 12, 1999		GROUP 1635	

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B00	AR	41	Rosenkrantz, A.A., et al., "Receptor-Mediated Endocytosis and Nuclear Transport of a Transfecting DNA Construct," Exp. Cell Res. 199:323-329, Academic Press, Inc. (1992)
	AS	41	Ruoslahti, E., and Pierschbacher, M.D., "New Perspectives in Cell Adhesion: RGD and Integrins," Science 238:491-497, American Association for the Advancement of Science (1987)
	AT	41	Sands, J.A., "Virucidal activity of cetyltrimethylammonium bromide below the critical micelle concentration," FEMS Microbiol. Lett. 36:261-263, Elsevier (1986)

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APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 37 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THW		APPLICATION NO. 09/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
				GROUP 1635	

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BJP	AR	42	Schlegel, R., et al., "Inhibition of VSV Binding and Infectivity by Phosphatidylserine: Is Phosphatidylserine a VSV-Binding Site?" Cell 32:639-646, Cell Press (1983)
	AS	42	Schlegel, R., and Wade, M., "Biologically Active Peptides of the Vesicular Stomatitis Virus Glycoprotein," J. Virol. 53:319-323, American Society for Microbiology (1985)
	AT	42	Scheule, R.K., "Novel Preparation of Functional Sindbis Virosomes," Biochemistry 25:4223-4232, American Chemical Society (1986)

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ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 38 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THM		APPLICATION NO. 09/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

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B7D	AR	41	Schmid, W., and Wehr, J-P., "Location of Spermine and Other Polyamines on DNA As Revealed by Photoaffinity Cleavage with Polyaminobenzene Diazonium Salts," <i>Biochemistry</i> 30:4357-4361, American Chemical Society (1991)
	AS	41	Seth, P., et al., "Pathway of Adenovirus Entry into Cells," in <i>Virus Attachment and Entry into Cells</i> , Crowell, R.L., and Lonberg-Holm, K., eds., American Society for Microbiology, Washington, D.C., pp. 191-195 (1986)
	AT	41	Silver, P.A., "How Proteins Enter the Nucleus," <i>Cell</i> 64:489-497, Cell Press (1991)

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ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 19 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 0942.4650001/RWE/THW		APPLICATION NO. 09/438,365	
				APPLICANT Chu et al.			
				FILING DATE November 12, 1999		GROUP 1635	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B3D	AR	44	Smith, C.E.T. and Ludwig, E.H., "Enhancement of the plaque-forming capacity of poliovirus ribonucleic acid with basic proteins," J. Bacteriol. 84:1035-1040, The Williams & Wilkins Company (1962)
	AS	44	Stegmann, T., et al., "Protein-mediated membrane fusion," Annu. Rev. Biophys. Biophys. Chem. 18:187-211, Annual Reviews, Inc. (1989)
	AT	44	Sugawa, H., et al., "Large Macromolecules Can Be Introduced into Cultured Mammalian Cells Using Erythrocyte Membrane Vesicles," Exp. Cell Res. 159:410-418, Academic Press, Inc. (1985)

EXAMINER	DATE CONSIDERED 12/23/05
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TDN		APPLICATION NO. 09/438.365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BDD	AR	45	Suzuki, S., et al., "Complete amino acid sequence of human vitronectin deduced from cDNA. Similarity of cell attachment sites in vitronectin and fibronectin." <i>EMBO J.</i> 4:2519-2524, IRL Press, Ltd. (1985)
	AS	45	Tang, M.X., et al., "In Vitro Gene Delivery by Degraded Polyamidoamine Dendrimers." <i>Bioconj. Chem.</i> 7:701-714, American Chemical Society (1996).
	AT	45	Tikhonenko, T.I., et al., "Transfer of condensed viral DNA into eukaryotic cells using proteoliposomes." <i>Gene</i> 63:321-330, Elsevier (1988)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4650001/RWE/TBN		APPLICATION NO. 09/438,365	
		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1615			

U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B06	AR	16	"Transfection Reagent" in <i>Genetic Engineering News</i> , Mary Ann Liebert, Inc., p. 12, column 3, (June 1993)
I	AS	16	Trubetskoy, V.S., et al., "Use of N-terminal Modified Poly(L-lysine)-Antibody Conjugate as a Carrier for Targeted Gene Delivery in Mouse Lung Endothelial Cells," <i>Bioconjug. Chem.</i> 3:323-327, American Chemical Society (1992)
I	AT	16	Väänänen, P., and Kääriäinen, L., "Fusion and Haemolysis of Erythrocytes caused by Three Togaviruses: Semliki Forest, Sindbis and Rubella," <i>J. Gen. Virol.</i> 46:467-475, Cambridge University Press (1980)

EXAMINER	DATE CONSIDERED 12/23/05
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 42 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TGN		APPLICATION NO. 09/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B00	AR	47	Van Zee, K., et al., "A Hydrophobic Protein Sequence Can Override a Nuclear Localisation Signal Independently of Protein Context," Mol. Cell. Biol. 11:5137-5146, American Society for Microbiology (1991)
	AS	47	Vivès, E., et al., "A Truncated HIV-1 Tat Protein Basic Domain Rapidly Translocates through the Plasma Membrane and Accumulates in the Cell Nucleus," J. Biol. Chem. 272:16010-16017, The American Society for Biochemistry and Molecular Biology, Inc. (June 1997)
	AT	47	Wagner, E., et al., "Coupling of adenovirus to transferrin-polylysine/DNA complexes greatly enhances receptor-mediated gene delivery and expression of transfected genes," Proc. Natl. Acad. Sci. USA 89:6099-6103, National Academy Press (1992)

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	12/23/05

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APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
		APPLICANT Chu et al.			
		FILING DATE November 12, 1999		GROUP 1635	

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
BSP I	AR	48	Wagner, E., et al., "Transferrin-polycation conjugates as carriers for DNA uptake into cells," Proc. Natl. Acad. Sci. USA 87:3410-3414, National Academy Press (1990)
	AS	48	Wagner, E., et al., "Influenza virus hemagglutinin HA-2 N-terminal fusogenic peptides augment gene transfer by transferrin-polylysine-DNA complexes: Toward a synthetic virus-like gene-transfer vehicle," Proc. Natl. Acad. Sci. USA 89:7934-7938, National Academy Press (1992)
	AT	48	Wagner, E., et al., "DNA-Binding Transferrin Conjugates as Functional Gene-Delivery Agents: Synthesis by Linkage of Polylysine or Ethidium Homodimer to the Transferrin Carbohydrate Moiety," Bioconj. Chem. 2:226-231, American Chemical Society (1991)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 44 of 52

FORM PTO-1449 SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4650001/RWE/THH		APPLICATION NO. 09/438,365	
		APPLICANT CHU et al.			
		FILING DATE November 12, 1999		GROUP 1635	

U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

BDD	AR	12	Walker, C., et al., "Cationic lipids direct a viral glycoprotein into the class I major histocompatibility complex antigen-presentation pathway," <i>Proc. Natl. Acad. Sci. USA</i> 89:7915-7918, National Academy Press (1992)
I	AS	12	Wayner, E.A., et al., "Identification and Characterization of the T Lymphocyte Adhesion Receptor for An Alternative Cell Attachment Domain (CS-1) in Plasma Fibronectin," <i>J. Cell Biol.</i> 109:1321-1330, The Rockefeller University Press (1989)
I	AT	12	Weinstock, L.T., et al., "Synthesis of New Polyamine Derivatives for Cancer Chemotherapeutic Studies," <i>J. Pharm. Sci.</i> 70:956-959, American Pharmaceutical Association (1981)

EXAMINER	<i>[Signature]</i>	DATE CONSIDERED	12/23/05
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWS/TDN		APPLICATION NO. 09/439,165	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B3P	AR	50	Wickham, T.J., et al., "Targeting of adenovirus penton base to new receptors through replacement of its RGD motif with other receptor-specific peptide motifs," Gene Ther. 2:750-756, Stockton Press (1995)
I	AS	50	Wilson, J.M., et al., "Hepatocyte-directed Gene Transfer in Vivo Leads to Transient Improvement of Hypercholesterolemia in Low Density Lipoprotein Receptor-deficient Rabbits," J. Biol. Chem. 267:963-967, The American Society for Biochemistry and Molecular Biology, Inc. (1992)
I	AT	50	Wolff, J.A., et al., "Direct Gene Transfer into Mouse Muscle in Vivo," Science 247:1465-1468, American Association for the Advancement of Science (1990)

EXAMINER	DATE CONSIDERED 12/23/05
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	51	Wu, G.Y., and Wu, C.H., "Receptor-mediated Gene Delivery and Expression in Vivo," J. Biol. Chem. 263:14621-14624, The American Association for Biochemistry and Molecular Biology, Inc. (1988)	
AS	51	Wu, C.H., et al., "Targeting Genes: Delivery and Persistent Expression of a Foreign Gene Driven by Mammalian Regulatory Elements in Vivo," J. Biol. Chem. 264:16985-16987, The American Society for Biochemistry and Molecular Cell Biology, Inc. (1989)	
AT	51	Wu, G.Y., and Wu, C.H., "Evidence for Targeted Gene Delivery to Hep G2 Hepatoma Cells in Vitro," Biochemistry 27:887-892, American Chemical Society (1988)	

EXAMINER	DATE CONSIDERED
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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 47 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/TDN		APPLICATION NO. 09/438,165	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.			
		FILING DATE November 12, 1999		GROUP 1635	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B00	AR	52	Wu, G. Y., et al., "Receptor-mediated Gene Delivery in Vivo: Partial correction of genetic analbuminemia in nagase rats," J. Biol. Chem. 266:14338-14342, The American Society for Biochemistry and Molecular Biology, Inc. (1991)
I	AS	52	Yagi, K., et al., "Incorporation of Histone into Liposomes Increases the Efficiency of Liposome-Mediated Gene Transfer," J. Clin. Biochem. Nutr. 10:21-25, Institute of Applied Biochemistry (1991)
I	AT	52	Yoshimura, K., et al., "Adenovirus-mediated Augmentation of Cell Transfection with Unmodified Plasmid Vectors," J. Biol. Chem. 268:2300-2303, The American Association for Biochemistry and Molecular Biology, Inc. (1993)

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ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

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FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROUP 1635			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
BJK	AR	51	Young, J.D.-E., et al., "Interaction of Enveloped Viruses With Planar Bilayer Membranes: Observations on Sendai, Influenza, Vesicular Stomatitis, and Semliki Forest Viruses," Virology 128:186-194, Academic Press, Inc. (1983)				
	AS	51	Zenke, M., et al., "Receptor-mediated endocytosis of transferrin-polycation conjugates: An efficient way to introduce DNA into hematopoietic cells," Proc. Natl. Acad. Sci. USA 87:3655-3659, National Academy Press (1990)				
	AT	51	Zhou, X., and Huang, L., "DNA transfection mediated by cationic liposomes containing lipopolylysine: characterization and mechanism of action," Biochim. Biophys. Acta 1189:195-203, Elsevier Science B.V. (1994)				

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Form PTO-1449

ATTY DOCKET NO. 61-03A

SERIAL NO. 10/629,522

FILING DATE 7/28/2003

APPLICANT Chu et al.

GROUP 1642

Previously Submitted In:

Page 49 of 52

FORM PTO-1449
SEVENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4650001/RWE/THNAPPLICATION NO.
09/438,365APPLICANT
Chu et al.FILING DATE
November 12, 1999GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

1330	AR	54	Zhu, Z. et al., "Transformation of tobacco protoplasts with DNA entrapped in pH-sensitive liposomes," Plant Cell, Tissue & Organ Cult. 22:135-145, Kluwer Academic Publishers (1990)
	AS	54	CAPLUS, Accession No. 1972:461856, STN Easy CAPLUS English language abstract for Hetschko, M., and Gosselick, J., "Reaktionen von sulfoniatsalzen des 1,3-dithiolans und seiner 2,2-substitutionsprodukte," Tetrahedron Lett. 17:1691-1692, Pergamon Press (1972) (Document AT23)
	AT	54	Dialog File 351, Accession No. 7672819, Derwent WPI English language abstract for EP 0 304 111 B1 (Document AN4)

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APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/418.365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
Bop	AR	55	Dialog File 351, Accession No. 8628544, Derwent WPI English language abstract for WO 91/04668 A1 (Document A04)
	AS	55	Dialog File 351, Accession No. 8822189, Derwent WPI English language abstract for DD 290 877 A5 (Document AN5)
	AT	55	Dialog File 351, Accession No. 9150067, Derwent WPI English language abstract for WO 92/11570 A2 (Document AL6)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 51 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,365	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
		GROCP 1635			

U.S. PATENT DOCUMENTS						
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	AN					Yes
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	AO					Yes
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	AP					Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B3D	AR	26	Dialog File 351, Accession No. 9417386, Derwent WPI English language abstract for WO 93/07282 A1 (Document AL7)
I	AS	26	Dialog File 351, Accession No. 9440951, Derwent WPI English language abstract for WO 93/07283 A1 (Document AM7)
I	AT	26	Dialog File 351, Accession No. 9483543, Derwent WPI English language abstract for EP 0 544 292 A2 (Document AO7)

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Form PTO-1449		
ATTY DOCKET NO. 61-03A	SERIAL NO. 10/629,522	FILING DATE 7/28/2003
APPLICANT Chu et al.		GROUP 1642

Previously Submitted in:

Page 52 of 52

FORM PTO-1449		ATTY. DOCKET NO. 0942.4650001/RWE/THN		APPLICATION NO. 09/438,165	
SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT Chu et al.		FILING DATE November 12, 1999	
				GROUP 1635	

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
B30 L	AR	57	Dialog File 351, Accession No. 10073779, Derwent WPI English language abstract for WO 94/23751 A1 (Document AN8)
	AS	57	Dialog File 351, Accession No. 10968033, Derwent WPI English language abstract for WO 96/31549 A1 (Document AO10)
	AT		

EXAMINER	DATE CONSIDERED 12/23/05
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.